

A decorative book cover featuring a central rectangular frame. Inside the frame, the word "MEMORANDUM" is written in a bold, serif font, oriented diagonally from bottom-left to top-right. The background of the frame is a textured, mottled green and brown color. Below this frame, a large, ornate red label is centered, containing the year "1891" in a bold, black, sans-serif font.

MEMORANDUM

1891

F. Stephens,
SANTA YSABEL,
CAL.

(3)

Feby 3rd 1891

Started from San Bernardino
at 12-30 P.M. and
camped for the night
at Vincents, in the lower
part of the Cajon Pass
15 miles. Not much change
on the route, except that
at "Martins" a very large
barn has been built, which
bore the legend "Glen Helen
Farm". Quite warm at
noon, - a little north wind
later. Roads good. Some
meadow larks were in song.

4th

Cloudy in the morning, after-
noon fair. Saw a Migadelle
in the Pass. Drove to Victor
10 miles.

5th

45-
35-

Cloudy most of 5th day
with ~~sight~~ two or three light
showers. Wind rather cold,
got water about 3 P.M. at
Stoddards Hill. The road
expected to get very bad,
but the house was torn down
and no one was living
there, so we drove about
ten miles further and found
a little grotto. 28 miles

6th

Reached Daggett at 11 A.M.
Clear day. Warm, but
the wind got strong toward
night. Had to wait
for freight train which
not come on time, 7 P.M.
Heard a H. lecontei singing just
before dinner, but a movement of
my horse frightened him away
and I did not find him.

80
8

7th.

Laid in camp waiting
for freight from San Bernardino
which was delayed. Wind very
high. Loaded cartridges &c
and looked for birds but
found very little.

8th

The delayed freight got in
at noon. Drove to Lantana
in the afternoon, 8 miles.
Cold north wind most
of the day. Therm. now
(8 P.M.) is 26°.

9th

88
44

Drove to Garlic Spring

27 miles, abundance of
gryphaea the last four
miles. Fine day, very
cold in the morning

Flur, 8° at sunrise

Below Garlic Springs is an
abundance of gryphaea and
brush grass, sand grass

10th

Drove about 22 miles and
made a dry camp
6 or 8 miles from Garlic Spy
just before reaching a high
lava passed gryphaea, all
that was seen during the
day. Passed over a high
granite ridge. Shot two
H. lecontei

11 Oct

Passed gyalta in a mile or so after starting and a very little just this side of the summit above Cave Spring. A mile or two above Cave Spring were a very few yuccas, different from any I know, a more delicate or perhaps degenerate form of the large species above Victor. One was about 12 feet high, smooth branched, with no smaller leaves than brevifolia. The species was common higher on Cave Mt., reached Durango Spring about 4 P.M. Table for grass. A few ducks on the pond, 20 miles

12th

157

26

Rained hard in the
forenoon, very dark sand
for about two hours.
Reached the amalgamated
Borax Works at dusk
20 miles.

13th

Arrived at Resting Springs
about 9-30, 6 miles,
Found Dr Fisher and
Mr Bentley in camp,
Set out a line of traps
in the afternoon, Shot a
Yellow-head tit. Saw a
H. lecontei. This appears
to be a good mammal
locality. The 14° in the
morning.

12
12

14th

Cloudy part of the day, and windy in the afternoon

15th

a little rain,

16th - 17th

Cloudy,

18th

Rain most of the day.

19th

Drove to 12 mile Spring, in the morning
Set out some traps
in the not. east in P.M.
Saw mountain lion tracks

20th

195

Clear and warm,

21st

Cloudy with a little
rain in the afternoon,

22nd

Rained all night and
until the middle of
the afternoon,

23rd

Rained all last night
and about midnight the wind
wind got strong and the
soft ground at the tent holes
sink and the pine pulled
up so that we let the tent
down and sat up while
they crawled under the
prostrate tent and we

195
12

did not get more than
an hour or so of sleep in
all night. This morning
we had to unload the
wagon to get it out on
the hard road. For a
mile or so the road was
bad but the remainder
of the way was sandy.
Hard rain part of the
forenoon, but toward noon
it stopped, and gradually
it cleared up. Strong
wind all day. Camped
at the left of the next
valley, in a cove 10 x 10 in
the rocky front, on the
left side. Rode across the
valley to Mr. Palms camp
and got some grain. Had
a ^{stormy} swim to ford to get the

24th

207

Fair day, but high wind.
As there was considerable
signs of small mammals
I was disappointed to find
only one Didelomys and two
Hesperomys in the 25 traps
I had out.

25th

Had nine in my traps
this morning. Rode over
to Mr. Palmit's camp and
got some grain for the
horses.

26th

Drove on about three miles
and camped. Found
some bunch grass in
the hills and turned
the horses loose on it.
Saw tracks of a wild
cat around the camp.

210
13

27 Oct.

Drove to the old ranch house in Fish Meadows, 15 miles. There is a large warm spring here, which contains fish. Seems to be a fair collecting locality. Saw a small Dipodomys run around behind the wagon and into another hole. His forewings I think ran very swift, and carried its tail high, showing the white brush very plainly.



225

28th

Very windy, and threatening rain.

2nd

Slight sprinkle last night
Fair today.

2nd

Clear,

3rd

Clear and warm, walked over to the other camp, near Watkins place is a very large spring, flowing 300 or more inches of water. It is a pool only 40 feet across and a dozen feet deep. It is not as warm as the springs here, which run 90° to 92° .

225
18

4th,

Clear and warm,

5th,

Started for Castle Spring
Waited a hour or more
at Mr Palmer's camp for
him to come in. Passed
Birds place at noon,
camped about 10 miles
from Birds, in the edge
of the sand grass, with
a rain in the night,
which was snow a little
higher, 18 miles.

6th,

The ground was wet and
wheeling bad. At noon the
few old wagon tracks we
had been following scat-
tered out, and as they were
not going in the direction
we had been told to

take I struck out for
the pass at the west end
of Table Mountain over. Stopped
half a mile below the top
of the pass and walked
up to the summit, as
I could see no sign of
the spring or any trail
marks or Indians trail,
which I was told would be
leading over the pass to the
spring. I went no further.
There was small patches
of snow around camp and
we melted snow to water
the horses. Pulled enough
grass to do the horses over
night. Grass is quite
scarce this high.

7th,

Thurs. 20° at sunrise,
North wind most of the
day, clear and snow
nearly gone.

8th

Went to the top of
Table Mountain. Saw
tracks of a cattle trail in
the snow on the plateau
of top. A deparfumate
form of *Yucca baccata*
was very abundant on
the plateau. From
the plateau I got the
following bearings by
rocked compass, magnetic
Telescope Peak of Panamint
Mts. S. 41° W. Sand hills
and Boundary Pass? W 24° S.
Highest peak of Charleston
Mts. S. 54 E.

9th.

256
25

Wrote a letter to Buffh,

10th.

Drove back on the road about nine miles and camped in the last good grass. Pulled a lot of sand grass to take along.

11th

Camped at "Birds" place,

12th

Drove into Watkins' and found that George (teamster) had come horseback and reported that his wagon was stuck in the mud N. Coyote Hole, and the team in Daggett in the livery stable. Mr. Palmer left with the reporter to camp at Daggett some day.

275
411

13th

Strove 89 miles N.W. and
camped in sand grass, a
dry camp.

14th

Reached the lower water
at Oasis Valley just before
sunset, 22 miles. It was
36 miles between waters, and
a dragging road - not very
bad, but slow to get over.

15th

Kept pretty busy skinning
etc. This is a fair collecting
ground, but a Thomomys,
C. sonoriensis, T. fulvifus
was having been the form
taken before. Also got
a short-tailed Hesperomys.
The topographer, Mr. Dike
mann has not got in yet.
Probably his horse played out.

17th

With horses not having come, I gave him up and moved two miles up to Stockton House.

18th

Started for the Grahams
Mts. Found it about 8 miles to Longstreet, in the W. part
of Basile Valley. The valley
is well watered, by springs,
and is alternately stretches of
alkali mud and tall grass.
It is $\frac{1}{2}$ to one mile wide.
The hills bordering it are
barren, and altogether it
is far from an oasis.
Made a dry camp nine
miles from Longstreet. From
5 to 6 o'clock snow and rain
alternated with big wind.
Very uncomfortable night.

135
10

19th.

Got as far up the canon as we could well get by two o'clock. No wagon has been over the old road for a year, and it is badly washed out. Rode up about a mile further and found a little spring where I watered the horses. Though there is plenty of snow there is no running stream here.

20th

Packed down a bag of water when I took the horses to water. Shall have to pack down a bag a day to get enough ahead to make the dry river when we come here. My throat is very painful, shall keep the saddle

22nd

24

Nearly two inches of
snow fell toward night.
Fixed up a shelter against
a cliff with the tent and some
brush.

23rd

The ground got bare in
the valley by night. Enough
snow water and filled
everything that would
hold water.

24th

Started to the top of the
mountains to get a view
of the country. The minor
peak of the valley was
in full sight, running directly
away south. The greater
peak appears covered
with alkali brush
see but a little of

Mosquit Valley on account
of intervening mountains.
To the S.W. I could see it
through a canon, probably
five miles distant. That
day was very clear and
the view was ~~good~~^{unimpeded}.
In the N. S. W. Mt. Whitney
stood looking over the
northern end of the Sierra
Mts. The latter range is
heavily covered with snow
and extended into the
N. W. until hidden by
near mountains. I found
that some of the higher
peaks were the Sierras
that lie not far beyond
the ^{Sierra} range. In the
S.W. the ~~Cerro~~^{Box} Gorda Mts
looked less rugged.

than their neighbors. In
the ^{irregular} mountains showed up in
the S.S. th., while due south
Lassen Peak crowned the
Peninsula Range which
was seen indistinctly across
the granite Valley a rough
range carrying snow in
one place to the west, barred
the road to Independence.
The Funeral Mts in the
S.E. did not look at all
high. In the C.S.E. the
Charleston Mts loomed
up ground as ever. Their
highest peak must go
above timber line.
In the far east well toward
a hundred miles away
was a long and very
high range. I don't

I know what it can be
In the S.E. I could see a
smoke, probably of burning
grass at "Birds" place (Downs
in Ash Meadows. It must
be 50 miles away air line.
It is 70 by the road.
In the same direction in
the foreground I could see
that there is a practicable
pass to get from camp
to the east end of Boundary
Pass, without going around
by Oasis Valley. If I had
a horseman along to
transport for water I would
try it as it would save
two or three days travel over
the Throop's Mill route.
From the east around
to the north a splinter

lay beyond the foothills,
In it was a large dry lake
at least ten miles long.
Beyond the lakes the plain
rose in steps, that in a few
places in the far distance
were to snow covered ranges.
From the N. to N. W., Grafton
Peak bid the west.
It almost rises to nearly ten
thousand Alt. These Grafton
mts are pretty well timbered
with firion, with a cedar
like shrub scattered through.
At the lower limit the
juniper replaces the firion.
As is usual in juniper
forests birds and animals are
scarce. So far I have taken
four species of mammals
and seen signs of four more.

I have noted 19 species
of birds, most of them
but one or two each,

26th.

In the afternoon we pulled
down about five miles
and camped.

27th.

Had a small black rabbit
of a species new to me, in
~~my trap~~. Struck across
W. N. G. to the Gold Mountain
road, which was reached
in about nine miles. In
the afternoon we drove along the
edge of the dry lake, which
must be ten miles long.
Reached Thorpe's Mill about 4 P.M.
when we found a prospector
who had lately taken up
all the good borax ground

27th

in the marsh. He claimed
that it was very rich in
some 500 acres. The mill
is a Huntingdonian and
appears to have been used
very little. A good well of
water at the mill is about
35 feet deep. Very high west
wind in the afternoon, 20 m.

28th.

Very strong north wind,
morning cold; Had seen
very red Dipodomys in the
bluffs.

29th.

The wind began to moderate
in the afternoon. It is
lucky for us that we got
into the shelter of the old
buildings. There is a warming
stone in the room we work

365

30th,

Drove S. W. about eight miles and stopped for or five hours and let the horses run over the sand grass, of which there is a considerable patch, at 4 P.M. started on and drove over the summit into the drainage of Death Valley. Very fine until nearly night, when a cold north wind came on,^{12m}

31st.

This morning, drove down a sandy canon six miles to Grafton Spring. Had no idea that it was in this canon, but expected to come out into the valley and turn up another canon to reach it. A small patch of alfalfa here looks fine

Aug 3rd

585
17

Drove down to Grafton Ranch, and in the afternoon went up on to the mesa above the house, with Mr Stearns and looked at the springs and took a bath. One spring is just above 100° , another is 96° ; at the bottom he has a good bathing place. Much of the rock seems to have been built up by the springs, which carry mineral (lime?) in solution. Shot three ducks in the afternoon.

4th.

Started on south at noon passed springs at 3, 4 & 5 miles, all small ones. Made a dry camp at 11 miles

400
14

5th April.

Had a very rough road for several miles in the forenoon. The wind has finest boulders, but it is bad. Got to Mosquit Spring about 3 P.M. It is fair water, but brackish. It is in the edge of the hill on the east side of Mosquit Valley 14 m.

6th.

I had a visit from an Indian who lives out in the valley. He did not talk very good English but gave me a good deal of information about various springs etc. Quite windy in the afternoon.

7th April

4/14
42

Started on Wind
blowway hard and the
air was full of sand and
gækabi. Got to the Borax
Works at 8 P.M. 22

8th .

Drove over to the ranch at
Furnace Creek 2 miles.
Found Mr Dickinson &
Corville there ^{empty} they left
for the main camp ~~over~~
at Bennett's Wells during
the day.

9th

Dr Merriam, Bailey and
Koebele come in just at
night.

12th

Drove to Magnit
Valley 20 m

456
45

13th.

Drove to Emigrant Spring. Several miles of old road were very bad, no road, and had to drive over a bed of boulders. The longest piece of thoroughly bad road I ever drove over.

14th

Lodged over.

15th

Drove to "Prognathus" flat

16th.

Had 10 small Prognathus in my traps and Mr Bailey had 13. Drove to Wild Rose Spring by noon and to the Coal Hills in the afternoon, 18 miles.

501
17

17th

Snowed a little in evening
most of the night over
the day, not amounting to
an inch.

18th

Went up on the divide to
see what had left tracks in
the snow. Found less than
we expected.

19th

Drove to Hot Spring 17 m.
None of the road was good
and about three miles was
outrageously bad, a bed of
boulders in a wash. It
was warm here.

20th

Shod Rebel, packed skins
and got things in order
generally.

518

21st.

Drove over into the head
of Bronx Flat. The grade up
the divide was good but so
badly washed as to make it
a very heavy grade for a mule.
Camped just over the summit.
Killed a rattlesnake in the
road, that Robt nearly
stepped on, 15 miles,

22nd

Drove to the water tank
(Water Station) in the forenoon
6 miles. No house here,

1 23rd

Drove to Sears Gardner in
the forenoon, 6 miles. Road
up the canon for a mile
was a very heavy grade
Poor pasture here, but good
shade under large fig trees
for ourselves. Plenty of good water

24th,

590
7

Did not move camp
Very windy.

25th

Drove back to the mouth of
the canon, 2 miles,

26th

The horses wandered away
in the night. Found them
at the Borax Works.

27th

Drove to the Borax Works
The works are not moving
as the Chinese crew are
nearly all sick with "lu
griffra"

28 - 29.

Laid over, found Bison
downs very abundant,
shot a long-eared fox,
Coyotes got away with two
traps just at the corners
of a house.

Had two young foxes
in traps. Putted on in
the afternoon to upper part
of Scott Spring Canon, 12 m

1 May

Drove to Raymond Hill
in Salt Wells Valley. Water
is very good here, 12 m

2 May

Laid over.

3 May

Drove about twelve miles
and made a dry camp

4 May

Drove to the Dodson Hill
at noon. This is where the
driven and horse change
on the stage line. Made
dry camp 18 m north
along the stage road, 18 m
below the Erastus Creek crossing the road

5 May

597
22

Drove to Little Owen Lake, or Little Lake as it is known locally, 10 mi
6 May

Packed Tammy and rock Redel backpack to Star Hot Springs Valley. It is 12 mi by the road but I tried to make a cut off by trail and got an hours ride out of my way. The springs lie on a slope from the granite mts. on the west side of the valley. Across the valley on the east side is a big low lava mesa. Bits of vegetation are strewn all over the country. There is not much water in the springs, and scarcely any runs out. In several the water is boiling and

6/19
12

stream escapes from many
cavities. The ground is bare
for some distance. In some
places around the springs the
ground is brick red. Sulphur
in small quantities is deposit-
ed at the edges of some of the
steaming cavities. Some holes
are full of mud and the
streams raises it and it
boils like some one stamp-
ing. Steam rises all around.
Some of the holes contain
red water soon yellow. In
one place the water seeps
through ground, and is cool
enough to drink. I had to
use it but it is not good.
A band of cattle running
here seem to thrive. The
soil & grass is eaten close.

431
16

12 May,

16m

Drove to Haven Valley

This is a natural grass meadow formed by a descent in the old river channel that once drained Owen Lake. Mr. Bellows has 9,000 graded Angora goats here and at Lone Spring, 4 miles below. Sheep still continue sauntering along the road. Probably an average of 15,000 a day have passed us since we got on the stage road. The feed is all eaten for a wide strip each side of the road. This is the annual spring migration of sheep to the desert. In the fall they go back to the Tulare country via Walker's Pass. All the sheep wear an ~~the~~ French fly.

647
9

17 May,

Drove to Olancha (9 mi) the 15th
and camped at Gus Walkers
ranch, putting the horses in
his corral. Day 25° for day
for horse. This is a pleasant
camp. Water in ditch from
Olancha Mtn. An alfalfa field
across the road. Cottonwood
and willow trees planted
around the houses. They
have plenty of water then
and raise horses and cattle,
feeding hay in winter. Land
seems to be cheap and not
in demand. The want of a
market keeps the country back.
The narrow gauge R. R. think
nothing in Kuler charges 3° per
pound for freight from S. F.
It would then become a wide
creek way.

656
5

20 May

Slight rain yesterday,
and high wind today

23 May

Started for a trip to timber line. Set off at 8-30 and as I got to the mouth of the canyon of an unnamed creek, which I have called Glencoe Creek to distinguish it from the rain command falling, I had made but five miles, but I impacted and stopped to the next morning, intending if the weather did not get favorable to give up the trip. A small tree probably a birch grows thickly along the stream. It is now 10 am. Saw a Tamias and Apteronotus and Cynomys were plenty, could hear Mountain Quail also,

661
9

24th Tuesday

The morning proved fair and I went on. It was about four miles to the summit and a couple of miles were very hard climbing. Summit Meadow was rocky backward, just showing green. Three miles further and some 500 feet lower are Marache meadows, where the grass was better, and the horses could get a short bite. These meadows are quite extensive, 2 to 6 miles wide to the back side of the deep basins and some 10 to 15 miles long. Around Summit Meadow the snow was yet deep on the north exposures, but in the Marache meadows very few drifts were left.

26 May,

672
5

Rode up to the springs at the head of the stream coming from Gloucester Park, and started tied them on pretty good grass, at about 9500 alt. For another 500 feet there was little snow but the remainder of the way it was deep and hard. Found the climb not very difficult. Several species of birds were rather common to timber line, and one I saw there Lanius ludovicianus? above timber line, a little Trochilus that is probably now was plenty to above timber line, but a little dry sand where about they fed in the rocks where I could not always get them.

The day was cloudy but the clouds were high, they touched the top of the Mt. Whitney group but none others. From Mt. Whitney a magnificent semicircle of peaks deeply covered with snow extends westward, around the end of a large basin some 15×25 miles I should think, which lies between Clark's Peak and them. Many of these peaks were exceedingly sharp, and probably not practicable to climb. Many ~~and~~ summit go above 14,000 ft. alt. and there is scarcely a place in the chain for 20 miles that drops below timber line. The basin must be from 8000 to 9000

27 May

675
21

Got back to Glencairn about
4 P.M.

29 May

Drove to Ash Creek, 9 miles,
a good camp. Stay at
Lorraine at \$10. a ton,

30 May

Very high cold wind from
the north. Here, 5-6 at noon
Snow whitened the ~~snowy~~
dry Mts. nearly to their
bases.

2 June,

Some rain yesterday and
more this morning. The dry
Mts are very white with fresh
snow down to about 8000
and a little has fallen in
the high Sierras also.

1096
66

3 June.

Drove to Cartago, 7

4 June

Drove to Charchi, 2

5 June,

Drove to the end of the wagon road and beginning of trail to Monache Meadows, and camped. 5 miles,

6 June

Drove back to Charchi

17 June

Drove into Don Pin yesterday. This is quite a settlement. Water seems to be plenty and soil pretty good. Mr. Wilson and I are anxious to work out the Owen Valley and White Mountains,

18 June

Drove to Independence, 16 m and ate the crack to lunch. 6 m

22 June,

76 $\frac{3}{10}$

Went up Dry Creek on church
Creek to its head. Passed
the Rex Monte 10 stamp mill
at one mile from Lengys, the
Kearnsage 10 stamp mill
at 2 miles. Both were run by
water power, the latter being
well equipped with machinery.
The mines amounted
to nothing however. The
further was an old 4 stamp
mill. The site of the old
mining camp of Kearnsage
City was about 3 miles from
Lengys, not a roof left in it
now. A mile further is
Union Valley, of some 40
acres. The snow came
down to the edges in many
places, and the south fork
ran down a steep hill.

into it, in many places
passing through a snow
bank. On the north fork
was a fine waterfall.
I went up the middle
fork. The trail to Tiaiaia
lakes on the north side of
the middle fork - on this
fork is a chain of four
little glacial lakes. The
upper one was yet solidly
frozen over, and covered
with snow, save that a
band of pale blue ice
clowned around the edges.
This was some 500 feet
below the summit of
the pass, which was about
timber line, so the lake
was about 11,000 alt.
It has no outlet, so I was

75

cold afternoon. I thought
it would not risen enough
to flow over the ridge at
its foot, but really that
ridge is a terminal
moraine of boulders and
the water passes through
it. It was all deeply
covered with snow.

The next two lakes had
some clear water and the
lower was nearly clear
of ice. Big perpendicular
granite cliffs surround
these lakes on most sides.
In the lakes at their feet
Pinus murrayana grows.
In the Onion Valley is some
grass. I got a dogwood just
above the Valley, and a few
mosses at its lower edge.
Saw several wood chuck,
one at low as 8000 alt.

772

From Independence to the
summit of the pass without
12 miles, I was sorry I did
not take my camera along
but the snow was still too
deep for good views. There
appear to be lateral moraines
on our or both sides of the
canyon to its mouth.

25 June,

Came in to Independence
yesterday and got the
horses shod and wagon
tires set, and drove out,
six miles. Today we
came to Big Pine and
to the bridge near Almond
and camped.

24

29 June

808
45

Drove to within a mile
of Bishop and camped by
the road. Walked into Bishop
in the afternoon, 17 m.

July 1st.

Drove to the old Fish
Slough stage station. No
one living here now; fair
shade, cool spring water
and plenty of coarse grass.
There was plenty of fish in
the sloughs, some of which
would weigh up to a
half pound, 10 mi.

3 July

Drove to the creek below

Mrs. Monroe

14 m

4 July

Drove to Mrs. Monroe 2 m

855
17

8 July

Drove to Benton 6 m.

This is an old mining camp, and partly deserted now. There is one good store and another small one. 2½ miles running back now but no firm is working 30 or 40 min. in mines near.

There is a hot spring at the town that furnishes a good supply of good water. It is said to be 134°.

10 July

Drove to the Gunn Station 11 miles. In on at the section house now all are moved in. Found a new Spurred lark common. Weather cool.

12 July

868
35

Drove to the Indian
Lawn Mill, 5 miles.
This mill has been idle
for years apparently,
It is about 7400 alt.,
and in the lower edge
of the pinyon belt.

13 July

Camped half a mile below
the Indian Lawn Mill
alt about 9300, 4m

16 July

Drove to Benton Station ^{15m}

17 July

Drove into Benton Forest
Mr. Fenton there Mr. Nelson
came in in the afternoon ^{2m}

19 July

Drove out on the road to
Mammoth about 9 miles
Lizzie stays in Benton
till my return

90°
30

20 July,

Drove to the Basa Lickabola Spring 18 miles. This is a good sized warm spring at the edge of a volcanic hill in Long Valley, alt 7500. There are patches of snow $\frac{1}{4}$ of the way to the foot of the Sierras. The streams are getting lower and we had no difficulty in crossing Owen River.

21 July

Drove to a mile above the summit and a mile below "Mammoth City", an abandoned mining camp. Camped in large fir and pine along the Owen River, a good camp every way. Good trout fishing and good collecting, 12 m

24 July

933
3

Rode up to where the Indians
had killed a deer
a mile or so above Pine
City. And in the afternoon
rode down to the upper
end of Pine City on the
banks of Lake Mary.

From the ruins of old cabin
there must have been quite
a place here once, now there
are three or four men doing
assessment work. There
are several small lakes
of glacial origin. There
is a rim of high cliffs
around the old glacial
basin, and large fields
of snow lie in their shade.
In the west there is a
break in the rim which
makes Mammoth Pass,

906
S

27 July

Accompanied Mr. Nelson
and his party to the
Upper San Joaquin River,
near the basaltic cliffs.

Passed the north end of
Lake Mary and another
lake called by the miners
"Dry" Lake because it
does not overflow, but
which I call Moraine Lake
to accompany the features
of the great terrace which I
made on its bank. To the
summit of Mountain Pass
was about three miles and
thence down to the camp
at the basalt cliffs was
about four more. The
trail was good but the
grade was rather steep.
The entire mountain

side was a large forest
of fir, with scarce another
species after having the
Pinus albicaulis? At the
summit until on the
river bottom valley P. frontalis
comes in. Near the river are
two very fine basalt cliffs
of prehistoric formation. A
rain swelled the streams
in the afternoon.

28 July

Photographed and hunted
around camp, having
good success,

29 July

Rode back to Pine City

30 July

Rode back about half
way to Bendon, and
camped at a spring for the night.

958
57

21 July

Got into Benton about
6 P.M. Arrived at migration

1 Aug.

Packed streams in the fore-
noon and at 4 P.M.
started for Bishop Creek
camped at Yellow Jacket
Spring. 7 m.

2 Aug.

Camped between Fish Slough
and Owen River. 21 m.

3 Aug.

Drove to Bishop Creek, 18 m.
The last five miles was a
bad road; deep sand and sand
up hill, sometimes rocky,

4 Aug.

Moved up to the meadow
(a mile) in the morning.
Good grass and water but
poor shade, but the weather is cool

5 Aug.

1025
410

Packed Fannie and rode
Rebel, to the lake, 8 mi.,
and camped at the log cabin
at the lake. Saw some
deer tracks on the way.
Shot a Lagomys in the
afternoon.

6 Aug.

Went down to the river
in the afternoon.

11 Aug.

Drove to 6 miles north of
Big Pine. 24 m.

12 Aug.

Drove to 6 miles below
above. 13 m.

13 Aug.

Stormed the night.
Held no Dipodomys despite
though women had passed
over the traps. Drove on

about three miles and
compelled to try it again

14 Aug

Had two Z. deserti in
the traps, I dug one out
besides but it got away.
It tried to dig away from
me and threw the dirt
behind itself so that but
for the ground being a
little softer I would have
thought that the burrow
was made. It finally
jumped out and got off.
The burrow was a real
work of holes. There was a
nest of soft grass.

Drove to the bridge south of
Dulafordonell, 20 m

Poor roads on the east
side of the river.

15 Aug

1085
38

Got the horses shod in the morning at Independence, Drove to Lone Pine in the afternoon, Found Mr. Dahlman there, and got some news of the whereabouts of the remainder of the party,

16 Aug

Drove through Kuler to Tule, Spring 5 miles further south, Found messrs, Ziekmann and Bartlett at Kuler, 20 m

17 Aug

Drove to Olancha, 15 m

18 Aug

Packed the horses with three weeks supplies etc, and, walking myself, went up to Mono Lake Meadows, 15 m

1128

20 Aug.

Heavy white frost in the morning. Slept cold. Went on to a little meadow at 9000 ft on the west side of Cloudy Peak 5 m

22 Aug.

Went up on Cloudy Peak. Found most of the snow gone. I thought I heard one mole of Lagomys near the summit. Linocisticte were plenty above timber line and also a few pines and Epigaea socialis and Sulphurea obsoleta. The little Tamias was common close to the summit. Saw a pair of Dendragapus and brood of nearly grown young just below timber line. Slept there. He had been feeding on leaves and blossoms of pines.

24 Aug,

1120

Went north about 10 miles
and camped, storm in the
afternoon.

25 Aug

In the forenoon went to the
head of ~~the~~ Mulkey Meadows^{on},
and in the afternoon rode
over to Lutcher's camp,
found Dr. Fisher there, came
back to camp at night.

26 Aug

Moved camp two miles
down to Moffat's camp,

28 Aug

Went over to Whitney Meadows
Found Palmer, Nelson and
Bailey there, 10 m

29 Aug,

Went on to Rock Creek

112

30 Aug.

Shot down Lagomys in
the afternoon, Patrus,
Bailey and Dutcher com-
in in the afternoon,

31 Aug

Started to find Mt Whitney.
The others got off first and
I followed their trail all
day, losing it just at angle
Wood over very rough country.
The others evidently were at a
loss to know where to look.
Camped a little below timber
line on the extreme north
branch of Kern River.

1 Sept,

Waited until noon but the
others did not turn up, so I
turned back going to Rock
Creek and camping. Saw
nothing of the other trail.

2 Sept.

112

Passed through Whitney Meadows in the afternoon,
No one at Palmers camp
and the tent short up,

Saw another party that
had turned back, unable
to find Mt. Whitney, In
crossing Whitney Creek I
slipped on a boulder and
fell flat in the creek, getting
a thorough wetting.

3 Sept.

Caught 15 trout before breakfast.
They are small, not averaging
much more than an ounce
in weight. Got to Manado
Meadows.

4 Sept.

Got to Olanotu about 9 P.M.
thoroughly tired. Every body
was well.

1123
144

6 Sept

Started on the long-winded
journey in the afternoon,
drove to Harvey Meadows gas

7 Sept.

Lunched at Little Lake, camped
for the night opposite Sand Creek

8 Sept.

27 m

Camped midway between Coyote
Hole and Red Rock, 26 m

9 Sept.

Got to "Bonnie Station", fair road
most of the day, 32 m

10 Sept.

Reached Mojave in the forenoon.
Left the collecting chest down
at Wilson's store, camped about
three miles south of Rosamond²⁴

11 Sept.

Passed Lancaster in the forenoon,
camped at a spring west of
Little Rock Creek, 23 m

12 Sept.

1264

51

Lunched at Big Rock Creek
and camped at Muscat? Creek.
There is 40 or more inches of water
here, a mile or more outside
the mouth of the canyon. No
one seems to have appropriated
the water, the first sun today
when no one had commenced
improvements. 22 m

(The water is appropriated.)

13 Sept.

Drove to La Blanc's near
the mouth of Sheep Creek,
laid over there most of
the day. 8m

14 Sept.

Drove to Brown's Crossing
of the Mojave River 21 m

15 Sept.

Windy and cold with a
light shower in the

1318

afternoon, Drove up to
the Upper Crossing and
finding nothing to stop
for went on about two
miles up the wash, on

16 Sept.

Drove to just below the
"Glen Helen Farm", the old
Martins Station, 26 m

17 Sept

Drove to San Bernardino 12 m

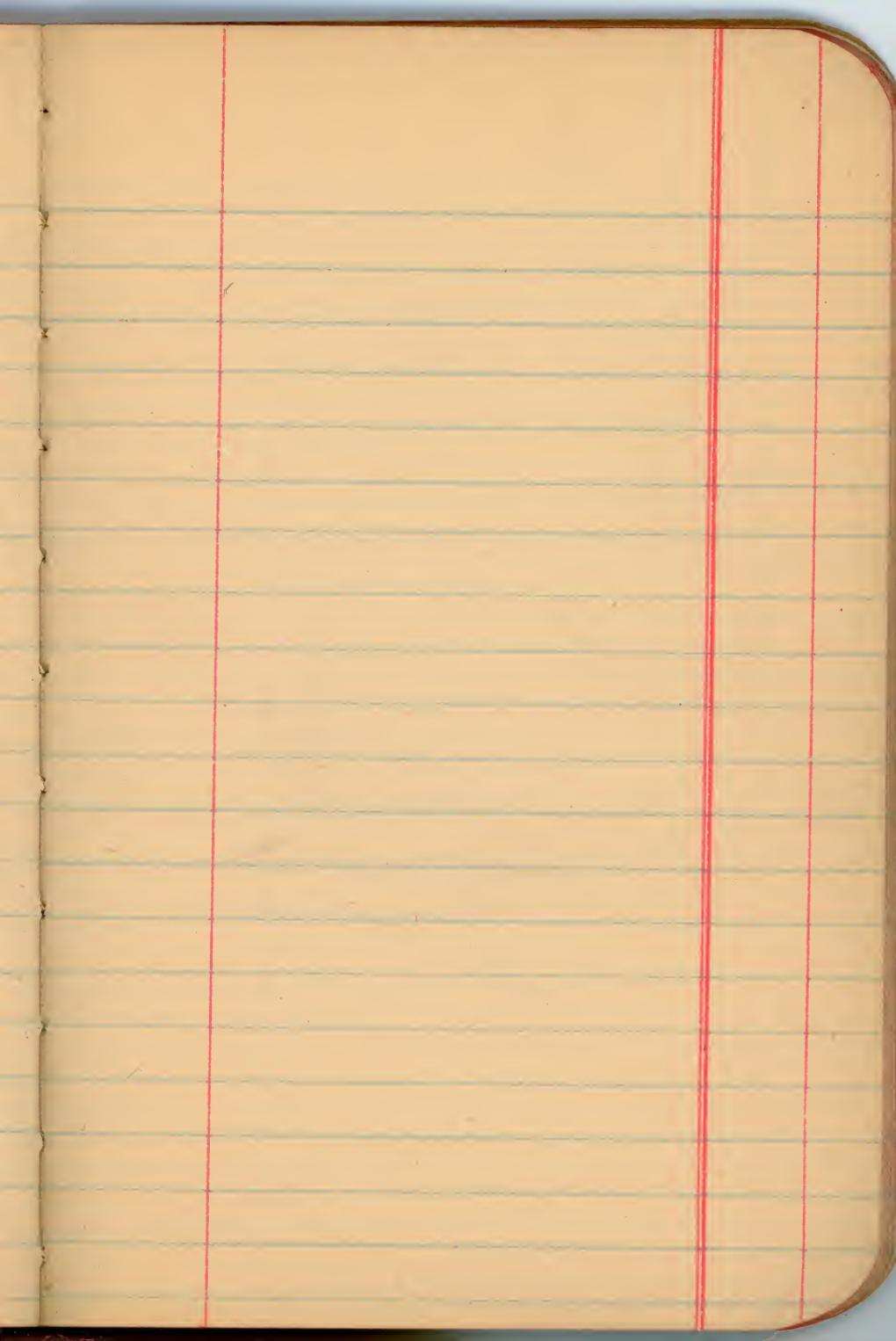
18 Sept

Drove to Riverside 10 m

21 Sept.

Drove to Rock Canyon 8 m

*The following 22
pages are blank.*



Data etc wanted

Data of Tamias 729

Is there a skull for Lepus, 639

Is there a skin for " 470

or a " a Mephitis 678

Send Frederick Frazee
Carlyle, Allen Co., Kas.
a double set of 12 Photos
from the Mammoth region = 24
E W Nelson also wants one set;

From type localities

2 or 3 Jack rabbits near
Mojave, S. G.
Spermophilus varianus
Dipodomys deserti
Hesperomys deserticola ♂♂
Perognathus fallax
Tamias lateralis
Sidewinder
Heteromys purpolidus

Mojave River Reptiles ^{wanted}
Crotalus cerastes (sidewinder)
Uromys quadrivirgatus (skink)
Chionactis occipitalis (a snake?)
Length 9 in. White above in al-
coholics (red in life?) 34 black
bands, 6 complete black tail bands

10 cyclone,
12 0 rainhouse
1 2 "
1 B.T.
1 Dillusion
1 wire "
5 Climax

2 cyclone
4 "
1 0 steel,
2 1 "
12 cyclone
36 "
4 1 steel
1 0 "
12 1 steel
36 cyclone
12 Climax

Zonotrichia leucophrys
Chelidon
Trochilus
Spinus
Spizella breweri
Carpodacus
Selinculus
Dendroica aestiva
D. auduboni Brew.
Phalaenostilus
Sayornis sayornis
Aquila
Zonotrichia
Malospiza
Pipilo chlorurus
Mimus

Jack White

$$\begin{array}{r} 16 \\ \times 4 \\ \hline 64 \end{array}$$

Horse Expenses

San Bernardino	Feb 3rd	
Stable bill	-	2 00
1 sack grain in Lyon Pass, 4th,	-	1 40
Hay	-	50
Victor 5th		
Hay	-	50
Daggett 8th		
Stable bill	-	3 00
1 sack grain	-	2 00
Hawleys 9th		
Hay		50
Borden Works 13th Feb.		
Hay		50
Glendale	Hay	5 00
Alameda	"	2 50
Morons	"	2 50

21
22

